



SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier T-Mulz® D6PE-KS

OTHER MEANS OF IDENTIFICATION

SDS NUMBER 320350-01

RECOMMENDED USE Anionic surfactant.

RECOMMENDED RESTRICTIONS None known.

MANUFACTURER, IMPORTER, SUPPLIER AND DISTRIBUTOR INFORMATION

MANUFACTURER

COMPANY NAME HARCROS CHEMICALS INC

ADDRESS 5200 Speaker Rd.
KANSAS CITY, KS 66106
UNITED STATES

Telephone Main Telephone Number 1-913-321-3131

WEBSITE WWW.HARCROS.COM

E-MAIL custserv@harcros.com

EMERGENCY PHONE NUMBER CHEMTREC 1-800-424-9300
CHEMTREC 1-703-527-3887 (call collect)

2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards Skin corrosion/irritation CATEGORY 2
Serious eye damage/eye irritation CATEGORY 2

Environmental hazards NOT CLASSIFIED.

OSHA defined hazards Combustible dust NOT APPLICABLE
Pyrophoric gas NOT APPLICABLE
Simple asphyxiant NOT APPLICABLE

Label elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation.

Precautionary statement

Prevention Wash hands thoroughly after handling. Wear protective gloves. Wear eye/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) NONE KNOWN.

Supplemental information None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

| Chemical name | Common name and synonyms | CAS NUMBER | %% |
|---|--------------------------|--------------|-----------|
| Alkyl phosphate ethoxylate, potassium salt* | | PROPRIETARY* | 40 - < 50 |
| Propylene Glycol | | 57-55-6 | 20 - < 30 |
| OTHER COMPONENTS BELOW REPORTABLE LEVELS | | | 30 - < 40 |

*DESIGNATES THAT A SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES

| | |
|--|---|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| SKIN CONTACT | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| EYE CONTACT | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. SKIN IRRITATION. MAY cause redness and pain. |
| INDICATION OF IMMEDIATE MEDICAL attention and special treatment needed | PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM UNDER OBSERVATION. Symptoms may be delayed. |
| GENERAL INFORMATION | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media | Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2). |
| UNSUITEABLE EXTINGUISHING MEDIA | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| SPECIAL PROTECTIVE EQUIPMENT and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment/instructions | MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. |
| SPECIFIC METHODS | Use standard firefighting procedures and consider the hazards of other involved materials. |
| GENERAL FIRE HAZARDS | No unusual fire or explosion hazards noted. |

6. ACCIDENTAL RELEASE MEASURES

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|---|---|
| Personal precautions, protective equipment and emergency procedures | KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. KEEP OUT OF low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|---|---|

Methods and materials for containment and cleaning up

This product is miscible in water.

LARGE SPILLS: STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. DIKE THE SPILLED MATERIAL, WHERE THIS IS possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

SMALL SPILLS: WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO remove residual contamination.

NEVER RETURN SPILLS TO ORIGINAL CONTAINERS FOR RE-USE. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. AIHA WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEL) GUIDES

| Components | Type | Value | Form |
|--------------------------------|------|----------|----------|
| Propylene Glycol (CAS 57-55-6) | TWA | 10 mg/m3 | Aerosol. |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

Individual protection measures, such as personal protective equipment

EYE/FACE PROTECTION

Wear chemical goggles. Avoid contact with eyes. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

HAND PROTECTION

Wear appropriate chemical resistant gloves.

SKIN PROTECTION

OTHER

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

THERMAL HAZARDS

Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE CONSIDERATIONS

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear.

Physical state

Liquid.

Form

Liquid.

Color

Pale yellow.

Odor

Mild.

| | |
|---|---|
| BOILING POINT | Not available. |
| pH | Not available. |
| MELTING POINT/FREEZING POINT | Not available. |
| INITIAL BOILING POINT AND BOILING range | Not available. |
| FLASH POINT | > 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup |
| EVAPORATION RATE | Not available. |
| FLAMMABILITY (SOLID, GAS) | Not available. |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | |
| FLAMMABILITY LIMIT - LOWER (%) | Not available. |
| FLAMMABILITY LIMIT - UPPER (%) | Not available. |
| EXPLOSIVE LIMIT - LOWER (%) | Not available. |
| EXPLOSIVE LIMIT - UPPER (%) | Not available. |
| VAPOR PRESSURE | Not available. |
| VAPOR DENSITY | Not available. |
| RELATIVE DENSITY | Not available. |
| SOLUBILITY (IES) | |
| SOLUBILITY (WATER) | Soluble. |
| PARTITION COEFFICIENT (n-octanol/water) | NOT AVAILABLE. |
| AUTO-IGNITION TEMPERATURE | Not available. |
| DECOMPOSITION TEMPERATURE | Not available. |
| VISCOSITY | Not available. |
| OTHER INFORMATION | |
| pH IN AQUEOUS SOLUTION | 7.5 - 9 (2% in DI Water) |
| SPECIFIC GRAVITY | 1.02 |

10. Stability And Reactivity

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|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| CHEMICAL STABILITY | Material is stable under normal conditions. |
| POSSIBILITY OF HAZARDOUS reactions | NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE. |
| CONDITIONS TO AVOID | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| INCOMPATIBLE MATERIALS | Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Inorganic acids and bases. |
| HAZARDOUS DECOMPOSITION products | Carbon oxides. Organic compounds which may be toxic. |

11. TOXICOLOGICAL INFORMATION

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|---|---|
| INFORMATION ON LIKELY ROUTES OF EXPOSURE | |
| INGESTION | Expected to be a low ingestion hazard. |
| INHALATION | Prolonged inhalation may be harmful. |
| SKIN CONTACT | Causes skin irritation. |
| EYE CONTACT | Causes serious eye irritation. |
| SYMPTOMS RELATED TO THE physical, chemical and TOXICOLOGICAL CHARACTERISTICS | SKIN IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. MAY cause redness and pain. |

INFORMATION ON TOXICOLOGICAL EFFECTS**ACUTE TOXICITY**

| Product | Species | TEST RESULTS |
|------------------------------|------------|-----------------------|
| T-MUZ® D6PE-KS (CAS MIXTURE) | | |
| ACUTE | | |
| ORAL | | |
| LD50 | Dog | 76 G/KG ESTIMATED |
| | GUINEA PIG | 73.6 g/kg estimated |
| | MOUSE | 95.6 g/kg estimated |
| | RABBIT | 72 g/kg estimated |
| | RAT | 120 g/kg estimated |
| OTHER | | |
| LD50 | Mouse | 26520 MG/KG ESTIMATED |
| | RAT | 25692 mg/kg estimated |

| Components | Species | TEST RESULTS |
|------------|---------|--------------|
|------------|---------|--------------|

PROPYLENE GLYCOL (CAS 57-55-6)

~~ACUTE~~~~ORAL~~

LD50

Dog

19 G/KG

GUINEA PIG

18.4 g/kg

MOUSE

23.9 g/kg

RABBIT

18 g/kg

RAT

30 g/kg

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION

Causes skin irritation.

SERIOUS EYE DAMAGE/EYE IRRITATION

CAUSES SERIOUS EYE IRRITATION.

RESPIRATORY OR SKIN SENSITIZATION~~RESPIRATORY SENSITIZATION~~

Not available.

~~SKIN SENSITIZATION~~

This product is not expected to cause skin sensitization.

GENE CELL MUTAGENICITY

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA SPECIALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1005)

NOT LISTED.

REPRODUCTIVE TOXICITY

This product is not expected to cause reproductive or developmental effects.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE

NOT CLASSIFIED.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

NOT CLASSIFIED.

ASPIRATION HAZARD

Not available.

CHRONIC EFFECTS

Prolonged inhalation may be harmful.

12. Ecological Information**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| PRODUCT | Species | | Test Results |
|--------------------------------|---------|--------------------------------------|--------------------------------|
| T-MULZ® D6PE-KS (CAS MIXTURE) | | | |
| AQUATIC | | | |
| Crustacea | EC50 | Daphnia | 40000 mg/l, 48 hours estimated |
| COMPONENTS | Species | | Test Results |
| PROPYLENE GLYCOL (CAS 57-55-6) | | | |
| AQUATIC | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 10000 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 710 mg/l, 96 hours |

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

| | |
|---|--|
| Persistence and Degradability | No data is available on the degradability of this product. |
| Bioaccumulative potential | No data available. |
| Partition coefficient n-octanol/water (log K_{OW}) | |
| PROPYLENE GLYCOL | -0.92 |
| Mobility in soil | No data available. |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation POTENTIAL, ENDOCRINE DISRUPTION, GLOBAL WARMING POTENTIAL) ARE EXPECTED FROM THIS COMPONENT |

13. DISPOSAL CONSIDERATIONS

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|--|--|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: DISPOSAL INSTRUCTIONS). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. TRANSPORT INFORMATION

| | |
|-------------|-----------------------------------|
| DOT | NOT REGULATED AS DANGEROUS GOODS. |
| IATA | NOT REGULATED AS DANGEROUS GOODS. |
| IMDG | NOT REGULATED AS DANGEROUS GOODS. |

15. REGULATORY INFORMATION

| | |
|---|---|
| US federal regulations | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. |
| TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUPP. D) | NOT REGULATED. |
| CERCLA Hazardous Substance List (40 CFR 302.4) | NOT LISTED. |
| SARA 304 Emergency release notification | NOT REGULATED. |

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1004.1050)

NOT LISTED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard Categories
 Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 PRESSURE HAZARD - NO
 Reactivity Hazard - No

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE

NOT LISTED.

SARA 311/312 HAZARDOUS chemical Yes

SARA 313 (TRI Reporting)

Not regulated.

OTHER FEDERAL REGULATIONS

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST

NOT REGULATED.

CLEAN AIR ACT (CAA) SECTION 112(F) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130)

NOT REGULATED.

SAFE DRINKING WATER ACT (SDWA) Not regulated.

US STATE REGULATIONS

US. MASSACHUSETTS RTK - SUBSTANCE LIST

NOT REGULATED.

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT

PROPYLENE GLYCOL (CAS 57-55-6)

US. Pennsylvania Worker and Community Right-to-Know Law

PROPYLENE GLYCOL (CAS 57-55-6)

US. Rhode Island RTK

NOT REGULATED.

US. CALIFORNIA PROPOSITION 65

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65): THIS MATERIAL IS NOT KNOWN TO CONTAIN any chemicals currently listed as carcinogens or reproductive toxins.

INTERNATIONAL INVENTORIES

| COUNTRY(S) OR REGION | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | YES |
| Canada | Non-Domestic Substances List (NDSL) | NO |
| China | Inventory of Existing Chemical Substances in China (IECSC) | YES |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | YES |
| Europe | European List of Notified Chemical Substances (ELINCS) | NO |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | NO |
| Korea | Existing Chemicals List (ECL) | NO |
| New Zealand | New Zealand Inventory | YES |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | NO |

| | | |
|-----------------------------|---|-------------------------------|
| COUNTRY(S) OR REGION | Inventory name | On inventory (yes/no)* |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

| | |
|-----------------------------|--|
| Issue date | 07-11-2014 |
| Version # | 01 |
| HMIS RATINGS | Health: 2 Flammability: 1 Physical hazard: 0 |
| NFPA RATINGS | Health: 2 Flammability: 1 Instability: 0 |
| Disclaimer | The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Harcros Chemicals Inc., provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Harcros Chemicals Inc., knows of no medical condition, other than those noted on this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product. |
| REVISION INFORMATION | Product and Company Identification: Product and Company Identification Hazard(s) identification: <INDENT>Prevention Composition / Information on Ingredients: Ingredients Handling and storage: Precautions for safe handling Physical & Chemical Properties: Multiple Properties REGULATORY INFORMATION: UNITED STATES |